

Patent Abstracts of Japan

PUBLICATION NUMBER : 61004860
 PUBLICATION DATE : 10-01-86

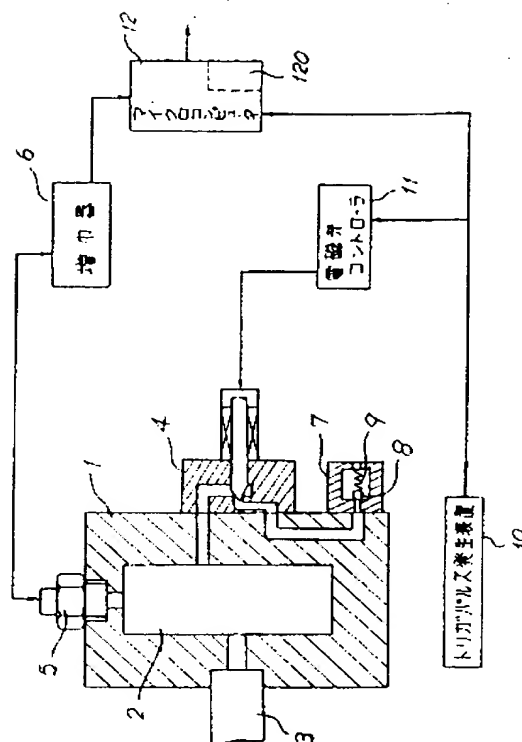
APPLICATION DATE : 16-06-84
 APPLICATION NUMBER : 59122957

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INT.CL. : F02M 65/00

TITLE : INJECTION-RATE METER



ABSTRACT : **PURPOSE:** To facilitate the installation and handling of the captioned apparatus with which fuel is jetted into a capacity chamber and the fuel injection rate is measured by obtaining the rate of variation of the pressure increase in the capacity chamber and the liberation and cut-off of fuel is controlled on the basis of the trigger pulses by use of a solenoid valve.

CONSTITUTION: The inside of the capacity chamber 2 of a body 1 is filled with fuel in the initial state, and a solenoid valve 4 is in closed state. When fuel is jetted-out from a fuel injection valve 3, the fuel pressure in the capacity chamber 2 increases in accordance with the injection amount. A pressure pickup-up 5 detects said increase, and the rise of pressure is detected through the amplification by an amplifier 6, and the detected output is input into a microcomputer 12. While a trigger signal supplied from a trigger pulse generator 10 is input into a controller 11 and the microcomputer 12. Then, after a set time, the controller 11 opens the solenoid valve 4, and the fuel jetted into the capacity chamber 2 is liberated. When the solenoid valve 4 is opened, liberation occurs over the set pressure of a back-pressure adjusting valve 7, and an initial state is restored.

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